

Bill of materials
Table 1. STEVAL-PDUBV1 bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	2	C95, C98	100uF	100uF/ 50V_20%_CES_D _10	PANASONIC	EEHZC1H101V
2	12	C55A, C55B, C125A, C125B, C125C, C125D, C125E, C125F, C126A, C126B, C127A, C127B	22uF	22uF/ 50V_20%_CES_D _6.3	PANASONIC	EEHZ
3	1	Q1	BC68PA	BC68PA	NEXPERIA	BC68PASX
4	1	U12	LDL40PURY, DFN 6L 2X2X 0.75 PITCH0.65 AG	LDL40PURY	ST	LDL40PURY
5	1	U8	SPC58NG84E7Q EH0X, LQFP 176 24x24x1.4	SPC58NG84E7	ST	SPC58NG84E7QEHOX
6	2	P6, P12	G&H 8pin	GH 8pin	MTConnectivity	401100ABK
7	2	P13, P16		M5_screw_conne ctor	MTConnectivity	01.1.0003
8	6	P3, P4, P5, P9, P10, P11		M6_screw_conne ctor	MTConnectivity	01.1.0004
9	6	P1, P2, P7, P8, P14, P15		M8_screw_conne ctor	MTConnectivity	01.1.0005
10	2	N/A	Power Protector for 16 pin	N/A	MTConnectivity	01.0.0002
11	12	N/A	Power Protector for 25 pin	N/A	MTConnectivity	01.0.0003
12	44	T4A, T4B, T4C, T4D, T4E, T4F, T5A, T5B, T5C, T5D, T5E, T5F, T6A, T6B, T6C, T6D, T6E, T6F, T7A, T7B, T8A, T8B, T9A, T9B, T10A, T10B, T11A, T11B, T12A, T12B, T13A, T13B, T14A, T14B, T15A, T15B, T16A, T16B, T17A, T17B, T18A, T18B, T19A, T19B	STL059N4S8AG	STL059N4S8AG	ST	STL059N4S8AG
13	4	U1A, U1B, U1C, U1D		VNF9D1M5Q	ST	VNF9D1M5QTR
14	1	U11		TJA1101	NXP	TJA1101AHN/OZ

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
15	1	U10	SPSA068-TR, QFN-32L WF	SPSA068-TR	ST	SPSA068-TR
16	10	U4A, U4B, U4C, U4D, U4E, U4F, U5A, U5B, U6A, U6B	QFN-32L WF	VNF1248F	ST	VNF1248FTR
17	2	U7A, U7B	Tape and Reel	L99SP08	ST	L99SP08TR
18	1	U9	QFN-32L WF	SPSB081	ST	SPSB0813-TR
19	2	U2A, U2B		VNF9D5SF	ST	VNF9D5SFTR
20	1	U3		VNF9Q20SF	ST	VNF9Q20SFTR
21	4	Tr_d3, Tr_d4, Tr_d10, Tr_d13	SM15T30AY, SMC	SM15T30AY	ST	SM15T30AY
22	2	Tr_d18, Tr_d19	SM15T33AY, SMC	SM15T33AY	ST	SM15T33AY
23	2	Tr_d20, Tr_d21	SM15T18AY, SMC	SM15T18AY	ST	SM15T18AY
24	10	D8A, D8B, D8C, D8D, D8E, D8F, D9A, D9B, D10A, D10B	40 V, SOD123Flat	STPS1L40-Y	ST	STPS1L40ZFY
25	5	D14A, D14B, D17, D18, D19	60 V, SOD128 Flat	STPS360-Y	ST	STPS360AFY
26	1	CR1	SOT323	ESDCAN03-2BW Y	ST	ESDCAN03-2BWY
27	30	D1A, D1B, D1C, D1D, D2A, D2B, D5, D6A, D6B, D6C, D6D, D6E, D6F, D7A, D7B, D11A, D11B, D12, D13, D15, D16, D20, D21, D22, D23, D24, D26, D27, D28A, D28B	40 V, SOT-323	BAT54-Y, BAT54C	ST	BAT54CWFILM
28	4	D3A, D3B, D4, D25	40 V, SOT-323	BAT54A	ST	BAT54AWFILMY
29	1	J3		CMP-0078655-1	TE Connectivity	9-2304372-9
30	1	X1	40 MHz	CX3225CA40000 D0HSSZ1	Kyocera AVX	CX3225CA40000D0HSSZ1
31	1	X2	25MHz	CX3225CA25000 D0HSSZ1	Kyocera AVX	CX3225CA25000D0HSSZ1
32	1	L4	DLW43MH201XK 2L	DLW43MH201XK 2L	Murata	DLW43MH201XK2L
33	1	J2	Cannon 9M	Cannon 9M	WE	618009231221
34	1	L2	15uH	LPS6235-153	Coilcraft	LPS6235-153MRC
35	1	J1	JTAG	JTAG_PPC	WE	61201421621
36	6	R43A, R43B, R43C, R43D, R43E, R43F	0R0002	CurrentShunt_9W _3921	Vishay	WSLP3921L2000FEA
37	2	R60A, R60B	0R0001	CurrentShunt_15 W_5930	Vishay Foil Resistors	Y14860R00010F9R
38	2	R82A, R82B	0R0002	CurrentShunt_15 W_5930	Vishay Foil Resistors	Y14860R00020F9R

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
39	10	R54A, R54B, R54C, R54D, R54E, R54F, R73A, R73B, R93A, R93B	NTC, 10K	NTC	EPCOS	B57321V2103J060
40	1	CR2		PESD2ETH1G-T	NEXPERIA	PESD2ETH1G-TR
41	1	Q2	BSS138	BSS138	NEXPERIA	BSS138PW,115
42	7	T1A, T1B, T1C, T1D, T2A, T2B, T3	BC847	BC847	NEXPERIA	BC847CW,115
43	1	T20	BC857	BC857	NEXPERIA	BC857CW,115
44	1	L1		74438367100	WE	74438367100
45	40	C1A, C1B, C1C, C1D, C5A, C5B, C5C, C5D, C8A, C8B, C15, C31A, C31B, C31C, C31D, C31E, C31F, C41A, C41B, C51A, C51B, C58A, C58B, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C74, C109, C110, C111, C112, C114, C119	100nF	100nF/ 50V_10%_0603	MURATA	GCJ188R71H104KA12D
46	7	C2A, C2B, C2C, C2D, C9A, C9B, C16	1nF	1nF/ 50V_10%_0603	MURATA	GCJ188R71H102KA01D
47	32	C3A, C3B, C3C, C3D, C4A, C4B, C4C, C4D, C10A, C10B, C11A, C11B, C17, C18, C25A, C25B, C25C, C25D, C25E, C25F, C35A, C35B, C45A, C45B, C54A, C54B, C56A, C56B, C87, C99, C115, C116	220nF	220nF/ 50V_10%_0603	MURATA	GCJ188R71H224KA01D
48	31	C6A, C6B, C6C, C6D, C7A, C7B, C7C, C7D, C13A, C13B, C14A, C14B, C20, C21, C22, C23, C32A, C32B, C32C, C32D, C32E, C32F, C42A, C42B, C52A, C52B, C73, C77, C79, C81, C83	10nF	10nF/ 50V_10%_0603	MURATA	GCJ188R71H103KA01D
49	8	C12A, C12B, C19, C75, C84, C85, C92, C100	2.2uF	2.2uF/ 16V_10%_0603	TDK	CGA3E1X7S1C225K080AE
50	44	C24A, C24B, C24C, C24D,	470nF	470nF/ 50V_10%_0603	TDK	CGA3E3X7R1H474K080AE

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
		C24E, C24F, C27A, C27B, C27C, C27D, C27E, C27F, C29A, C29B, C29C, C29D, C29E, C29F, C30A, C30B, C30C, C30D, C30E, C30F, C34A, C34B, C37A, C37B, C39A, C39B, C40A, C40B, C44A, C44B, C47A, C47B, C49A, C49B, C50A, C50B, C57A, C57B, C113, C118				
51	41	C26A, C26B, C26C, C26D, C26E, C26F, C28A, C28B, C28C, C28D, C28E, C28F, C33A, C33B, C33C, C33D, C33E, C33F, C36A, C36B, C38A, C38B, C43A, C43B, C46A, C46B, C48A, C48B, C53A, C53B, C59A, C59B, C88, C89, C90, C91, C106, C108, C122, C123, C124	1uF	1uF/ 50V_10%_0603	TDK	CGA3E3X5R1H105K080AB
52	4	C60, C61, C120, C121	10pF	10pF/ 50V_10%_0603	Kyocera AVX	06035A100K4T2A
53	4	C76, C78, C80, C82	47nF	47nF/ 50V_10%_0603	TDK	CGA3E2X7R1H473K080AA
54	1	C117	4.7nF	4,7nF/ 50V_10%_0603	TDK	CGA3E2X7R1H472K080AA
55	2	C105, C107	2,2uF	2,2uF/ 50V_10%_0805	TDK	CGA4J3X7R1H225K125AE
56	9	C86, C93, C94, C96, C97, C101, C102, C103, C104	10uF	10uF/ 50V_10%_1206	TDK	CGA5L3X5R1H106K160AB
57	1	L3	100uH	100uH/ 0,15A_+50%/-30 %_1812	TDK	ACT45B-101-2P-TL003
58	1	LED1	Red LED	LED/RED_00603	WE	155060RS73200
59	4	LED2, LED8, LED9, LED10	Orange LED	LED/ ORANGE_0603	WE	155060AS73200
60	5	LED3, LED4, LED5, LED6, LED7	Green LED	LED/ GREEN_0603	WE	155060GS73200

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
61	1		JUMP_3_PIN	JUMP_3_PIN	WE	609002115121
62	1	JP3	JUMP_3_PIN	JUMP_3_PIN	WE	61300311121
63	8	JP1A, JP1B, JP1C, JP1D, JP2A, JP2B, JP2C, JP2D	JUMP_3_PIN	JUMP_3_PIN	PANASONIC	ERJ-3GEYJ473V
64	2	JP4, JP5	47k	JUMP_3_PIN	PANASONIC	ERJ-3GEYJ473V
65	9	R3A, R3B, R3C, R3D, R17A, R17B, R31, R101A, R101B	330R	330R/ 0.1W_5%_0603	VISHAY	CRCW0603330RJNEA
66	7	R1A, R1B, R1C, R1D, R15A, R15B, R29	330R	330R/ 150V_1%_0805	VISHAY	CRCW0805330RFKEAHP
67	9	R2A, R2B, R2C, R2D, R16A, R16B, R30, R152, R153	100R	100R/ 0.1W_5%_0603	PANASONIC	ERJ-U03J101V
68	7	R4A, R4B, R4C, R4D, R18A, R18B, R32	120R	120R/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ121V
69	16	R5A, R5B, R5C, R5D, R19A, R19B, R28A, R28B, R33, R42, R127, R154, R157, R163, R164, R192	4k7	4k7/0.1W_5%_0603	PANASONIC	ERJ-U03J472V
70	90	R6A, R6B, R6C, R6D, R7A, R7B, R7C, R7D, R10A, R10B, R10C, R10D, R11A, R11B, R11C, R11D, R20A, R20B, R21A, R21B, R22A, R22B, R23A, R23B, R24A, R24B, R34, R35, R36, R37, R38, R48A, R48B, R48C, R48D, R48E, R48F, R57A, R57B, R57C, R57D, R57E, R57F, R58A, R58B, R58C, R58D, R58E, R58F, R59A, R59B, R59C, R59D, R59E, R59F, R67A, R67B, R77A, R77B, R78A, R78B, R80A, R80B, R87A, R87B, R97A, R97B, R98A, R98B, R99A, R99B, R102A, R102B,	2k7	2k7/0.1W_5%_0603	PANASONIC	ERJ-3GEYJ272V

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
		R103A, R103B, R104A, R104B, R105A, R105B, R106A, R106B, R107A, R107B, R156, R159, R162, R193, R194, R195, R196				
71	26	R8A, R8B, R8C, R8D, R9A, R9B, R9C, R9D, R46, R52, R65, R123, R129, R130, R146, R147, R148, R149, R150, R151, R160, R161, R169, R185, R186, R188	15k	15k/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ153V
72	38	R12A, R12B, R12C, R12D, R13A, R13B, R13C, R13D, R25A, R25B, R26A, R26B, R39, R40, R49A, R49B, R49C, R49D, R49E, R49F, R51A, R51B, R51C, R51D, R51E, R51F, R68A, R68B, R70A, R70B, R88A, R88B, R90A, R90B, R108A, R108B, R109A, R109B	5k6	5k6/0.1W_5%_0603	PANASONIC	ERJ-3GEYJ562V
73	21	R14A, R14B, R14C, R14D, R27A, R27B, R41, R50A, R50B, R50C, R50D, R50E, R50F, R69A, R69B, R89A, R89B, R110A, R110B, R155, R165	180R	180R/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ181V
74	44	R44A, R44B, R44C, R44D, R44E, R44F, R47A, R47B, R47C, R47D, R47E, R47F, R53A, R53B, R53C, R53D, R53E, R53F, R61A, R61B, R62A, R62B, R63A, R63B, R66A, R66B, R72A, R72B, R74A, R74B, R79A, R79B, R81A, R81B,	1R	1R/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ1R0V

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
		R83A, R83B, R86A, R86B, R92A, R92B, R95A, R95B, R100A, R100B				
75	33	R45A, R45B, R45C, R45D, R45E, R45F, R55A, R55B, R55C, R55D, R55E, R55F, R64A, R64B, R75A, R75B, R84A, R84B, R94A, R94B, R122, R128, R166, R170, R171, R173, R174, R175, R176, R179, R180, R182, R203	47k	47k/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ473V
76	17	R56A, R56B, R56C, R56D, R56E, R56F, R76A, R76B, R85, R91, R96A, R96B, R134, R172, R181, R190, R191	10k	10k/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ103V
77	12	R111, R112, R113, R114, R115, R116, R117, R118, R197A, R197B, R198A, R198B	0R	0R/ 0.1W_5%_0603	PANASONIC	ERJ-3GEY0R00V
78	20	R119, R120, R121, R124, R125, R126, R131, R132, R133, R135, R136, R137, R139, R140, R141, R184, R204, R205, R206A, R206B	47R	47R/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ470V
79	3	R138, R142, R202	1K5	1k5/0.1W_5%_0603	PANASONIC	ERJ-U03J152V
80	4	R143, R144, R145, R183	100k	100k/ 0.1W_5%_0603	PANASONIC	ERJ-U03J104V
81	3	R158, R167, R168	3k3	3k3/0.1W_5%_0603	PANASONIC	ERJ-U03J332V
82	3	R177, R178, R187	1k	1k/ 0.1W_5%_0603	PANASONIC	ERJ-U03J102V
83	1	R189	30k	30k/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ303V
84	1	R199	360k	360k/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ364V
85	2	R200, R201	200k	200k/ 0.1W_5%_0603	PANASONIC	ERJ-3GEYJ204V
86	1	C62	4,7uF	4,7uF/ 16V_10%_0805	TDK	CGA4J3X7R1C475K125AE

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
87	10	ZD1A, ZD1B, ZD1C, ZD1D, ZD1E, ZD1F, ZD2A, ZD2B, ZD3A, ZD3B	5,6V	5,6V/SOT-323	Nexperia	BZB784-C5V6

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